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**(54) SOLID LASER SYSTEM FOR GENERATING HIGH REPEATING, ENERGY AND POWER  
LASER BEAM**

(57) Abstract:

PURPOSE: A solid laser system is provided to improve the repetition, energy, and power of the laser beam by providing an optimum alignment of an optical system. CONSTITUTION: A solid laser system for generating high repeating, energy and power laser beam includes a plurality of laser amplifying systems(18) linearly connected to each other. Each of the systems(18) includes first and second laser amplifying parts(11,17). The first laser amplifying part(11) has a plurality of first laser amplifiers disposed in parallel. Each of the laser amplifier includes a first beam size adjustor(3), a polarization separator(4), a first linear polarization rotating member(5), a first light separator(7), a first stimulated Brillouin scattering cell(10). The second laser amplifying part(17) includes a plurality of second laser amplifiers disposed in parallel. Each of the second laser amplifier includes a second linear polarization rotating member(12), a second light separator(13), and a second stimulated Brillouin scattering cell (16).

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